GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA

UNSTARRED QUESTION NO:2927
ANSWERED ON:09.08.2001
PUBLICATION OF RESEARCH PAPERS BY IASRI
A.P. ABDULLAKUTTY

Will the Minister of AGRICULTURE be pleased to state:

(a) whether Scientists of Indian Agricultural Statistics Research Institute under ICAR are encouraged to publish research findings;

(b) if so, the total number of research papers published in national and international journals by Principal Scientists, Heads of Divisions, Joint Director and Director of this Institute, category-wise, scientist-wise and year-wise; and

(c) the details of their publication during each of the last three years category-wise and scientist-wise?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (DR. DEBENDRA PRADHAN)

(a) Yes, Sir.

(b) Total 71 papers as detailed in Annexure-1.

(c) The details have been presented in the Annexure-2.

Annexure-1

Category wise and Year-wise break-up of the Research Papers Published

Category	1998-99	1999-2000	2000-01	Total
Director	02	02	01	05
Joint Director	02	-	03	05
Head of Divisions	12	10	05	27
Principal Scientist	12	08	14	34

Anexure 2

The details of their publication last three years category-wise and scientist-wise.

Director: Dr. S.D. Sharma

i. An empirical study of ratio-regression type estimators. By SHARMA, SD AND SINGH, A.K. J. of Indian Society of Agricultur Statistics , 51(2&3), 349-360(1998)

ii. Agricultural statistics and Computer Application in agriculture: past, present and future orientation by SHARMA, SD AND BATHLA IASRI Souvenir entitled `Advance in Agricultural Statistics and Computer Applications` brought out on the occasion of 50th year of Independence, pp 01-20 (1998)

iii. Some vedic mathematical methods and their use in computer software by Sharma, SD and DAS, MN in statistics computer applications 1 (1): 73-78(1999)

iv. Crop response to fertilizers in different Agro-climatic regions of the country by SHARMA, SD. SHARMA , VK AND RAO, C Fertilisers News 44(4): 17-20 & 23-26 (1999)

v. Regional disparities in socio-economic development in Tamil Nadu by NARAIN, P; SHARMA, SD; RAI, SC AND BHATIA, VK J Indian Society of Agricultural Statistics 53:35-46 (2000)

Joint Director: Dr. A.K. Srivastava

i. Estimation of regression coefficient from survey data based on test of significance by RAI, ANIL AND SRIVASTAVA, AK. Communications Statistics Theory methods 27(3) 761-773 (1998)

ii. Small area estimation techniques in agriculture by SRIVASTAVA, AK; AHUJA, DL; BHATIA, DK AND MATHUR, DC IAS Souvenir entitled `Advance in Agricultural Statistics and Computer Applications` brought out on the occasion of 50th Year of Independence, pp 32-45 (1998)

iii. Outlier robust finite population estimation under a linear regression model.by SRIVASTAVA, AK and GEETALAXMI, V. J. of Indian Society of Agricultural Statistics 53(1):20-34. (2000)

iv. Estimation of population mean in repeat surveys in the presence of measurement errors by SUD, UC; and SRIVASTAVA, AK. J. of the Indian Society of Agricultural Statistics 53(2) 125-133(2000)

v. On a biased estimator in repeat surveys, SUD, UC; SRIVASTAVA, AKand SHARMA, DP J. of the Indian Society of Agricultural Statistics 54(1) 29-42(2001)

HEAD OF DIVISIONS

Head Sample Survey: Dr. H.V. L. BATHLA

i. Agricultural statistics and Computer Application in agriculture : past present and future orientation by SHARMA, SD AND BATHLA HVL IASRI souvenir entitled `Advance in Agricultural Statistics and Computer Applications` brought out on the occasion of 50th Year of Independence, pp 01-20 (1998)

ii. Sampling methodology for estimation of fish catch by BATHLA, HVL and KHER, KK. IASRI souvenir entitled `Advance i Agricultural Statistics and Computer Applications` brought out on the occasion of 50th Year of Independence, pp 21-31 (1998)

iii. Agricultural statistics research in India by GOEL, BAL BPS and BATHLA, HVL J. of the Indian Society of Agricultural Statistic 51(& 3) 407-426 (1998)

Head Design of Experiments : Dr. V.K. GUPTA

i. A-optimal block designs under a mixed model for making test treatments control comparisons by GUPTA, VK; ARCHANA PANDEY and RAJENDER PARSAD Sankhya B, 60(3) 496-510 (1998)

ii. Optimality aspects of experimental designs by PARSAD, RAJENDER; GUPTA VK and JAGGI, SEEMA IASRI souvenir entit `Advance in Agricultural Statistics and Computer Applications` brought out on the occasion of 50th Year of Independence, pp 106-117(1998)

iii. Weighted a-efficiency of block designs for making treatment - control and treatment-treatment comparisons by GUPTA, VK; DVV RAMANA and PARSAD RAJENDER J. Statistical Planning and Inference. 77: 301-319 (1999)

iv. Construction of non-proper balanced bipartite block designs by JAGGI, SEEMA; PARSAD, RAJENDER AND GUPTA, VK. Statist. Assoc. Bull. 49 (March-June): 55-63(1999)

v. Universally optional block designs for diallel crosses by PARSAD, RAJENDER; GUPTA, VK and SRIVASTAVA, R. Statistics ar Applications 1(1) : 35-52 (1999)

vi. An alternate strategy for design and analysis of experiments involving split application of fertililser by BATRA, PK; PARSAD, RAJENDER; GUPTA, VK and KHUNDURI, OP. Statistics and Applications 1(2) 175-187 (1999)

vii. Robustness of designs against missing data by LAL, KRISHNAN; GUPTA, VK and BHAR, LAL MOHAN. J. of Applied Statist 28(1), 63-79(2001)

Head Biometrics :Dr. Prajneshu

i. Five decades of research in biostatistics and statistical genetics. An overview by Rana, P.S. and Prajneshu IASRI Souvenir

Advance in Agricultural Statistics and Computer Applications brought out on the occasion of 50th year of Independence: PP 172-179 (1998).

ii. Teaching and Training activities at IASRI by SRIVASTAVA, R AND PRAJNESHU, IASRI Souvenir Advance in Agricultural Statistics and Computer Applications brought out on the occasion of 50th year of Independence :PP 261-263 (1998).

iii. Some contagious distributions for describing spatial spread of aphids (Hompotera: Aphididae) when negative binomial distribution fails by PRAJNESHU AND SARADA, C.J.Aphidology, 13: 17-26 (1999).

iv. Ven Bertalanffy growth model in a random environment by PRAJNESHU AND VENUGOPALAN, R. Can.J.fish Aquat Science, 5 1026-1030(1999).

v. Growth models for describing statewise wheat productivity by Prajneshu and Dass, P.K. J. of the Indian Society of Agricultural Statistics, 34, 179-181 (2000).

vi. Lagrangian - Poisson distribution for describing spatial spread of aphids by SARADA, C AND PRAJNESHU, Aphidol, 14, 33-40 (2000).

vii. Pella - Tomlinson nonlinear statistical model with autocorrelated errors by VENUGOPALAN, R AND PRAJNESHU J. of the Indi Society of Agricultural Statistics, 53, 12-19 (2000).

Head Computer Application: Dr.P.K.Malhotra

i. Computer and Informatics - Experience at IASRI by MALHOTRA, P.K., IASRI Souvenir Advance in Agricultural Statistics a Computer Applications brought out on the occasion of 50th year of Independence: PP 247-253(1998)

Head Forecasting: Dr. Ranjana Agrawal

i. Crop Weather relationship and its use in yield forecast by AGRAWAL, RANJANA AND JAIN, R.C. IASRI Souvenir Advance Agricultural Statistics and Computer Applications brought out on the occasion of 50th year of Independence:PP 198-208 (1998)

ii. Statistical models for crop yield forecasting using Biometrical characters by JAIN, R.C. CHANDRAHAS AND AGRAWA RANJANA, IASRI Souvenir Advance in Agricultural Statistics and Computer Applications brought out on the occasion of 50th year c Independence: PP 2D-226 (1998).

iii. Estimation of labour employment potential in livestock production by PANDEY, R.K., AGRAWAL, RANJANA Vol. 30 (1-4) Jar Dec. 165-172 (1999).

iv. Statistical models for crop yield forecasting proceedings of National Workshop on Dynamic Crop simulation modeling for Agro-meteorological Advisory Service by JAIN, R.C. AND AGRAWAL, RANJANA - NCMRWS Dept. of Science and Technology, N Delhi - 295-303 (1999).

v. Strategies for composite forecast by MEHTA, S.C., AGRAWAL, RANJANA AND SINGH , VPN. J. of the Indian Society Agricultural Statistics, 53(3), 262-72 (2000)

Head Econometrics: Dr.R.K.Pandey

i. Study of Technical Change in Agriculture by PANDEY, R.K. , IASRI Souvenir Advance in Agricultural Statistics and Compute Applications brought out on the occasion of 50th year of Independence: PP 254-269. (1998)

ii. Estimation of labour employment potential in livestock production by PANDEY, R.K;, AGRAWAL, RANJANA, SINGH, SHIVTA Indian Journal of Animal Production Vol. 30 (1-4) Jan-Dec, 165-172 (1998).

iii. Economic analysis of demand patterns of perishable products by PANDEY, R.K. AND KUMAR SANT Indian Journal of Agri Marketing, 13 (2): 1-5 (1999).

iv. Determination of adoption of modern sorghum production technology: Experience of Karnataka state by KIRESURE, V; PANDE R.K and MRUTHYUNJAYA , Ind. J. of Agril. Economics, 54 (2):155-168 (1999).

PRINCIPAL SCIENTIST

Dr. B.S. SHARMA

i. Gene action and heterosis in lifetime traits by SHARMA, BS; PRABHAKARAN, VT and PIRCHNER, F J. Ani. Bread. Geneti; 1 319-330 (2000)

Dr. V.K. BHATIA

i. Computer intensive Bootstrap Technique for Estimation of Variance and Confidence Intervals of Heritability by BHATIA, VK Proceedings of the Symposium on `Recent Advanced in information theory, Statistics and Computer Applications published by CCS Haryana Agricultural University Hissar, pp 12-26 (1998)

ii. Precision of heritability estiamtion - A computer intensive look by HHATIA, VK and JAYASHANKAR, J Journal of Indian Society c Agril. Statistics on the occasion of ;Golden Jubilie Conference pp 72-81 (1998)

iii. A note on Sukhatme`s influence on development of statistical methods in Animal Science research by BHATIA, VK and NARAIN, P J. of Indian Society of Agril. Statistics Vol. 51 pp 427-430 (1998)

iv. Some invesigations on precision of heritability by WAHI, SD; BHATIA, VK and CHAND, L. IASRI Souvenir entitled `Advance Agricultural Statistics and Computer Applications` brought out on the occasion of 50th Year of Independence, pp 180-188 (1998)

v. Inter district variation of development in Southern Region by NARAIN, P: RAI, SC AND BHATIA, VK J. of Indian Society Agricultural Statistics 52(1): 106-120 (1999)

vi. Regional disparities in Scoio economic development in Tamil Nadu NARAIN, P; SHARMA, SD; RAI, SC and BHATIA V.K.of Indian Society of Agricultural Statistics 53(1) 35-46 (2000)

vii. Empirical comparison of different methods of estimation of heritability of stayability in dairy cattle by PAU, AMRIT KUMAR and BHATIA, VK J. of the Indian Society of Agricultural Statistics, 53(2), 196-206 (2000)

viii. Heritability of Stayability by path co-efficient approach when herdlife is influenced by unrelated auxiliary characters by PAUL, AMRIT KUMAR and BHATIA, VK Sankhaya, series B, 62(3), 463-471(2000)

Dr. R.C.JAIN

i. Crop weather relationship and its use in yield forecast by AGRAWAL, RANJANA and JAIN, RC IASRI Souvenir entitled `Advance Agricultural Statistics and Computer Applications` brought out on the occasion of 50th Year of Independence, pp 198-208(1998)

ii. Forecasting of crop yields using second order Markov chains by JAIN, RC and RAMA SUBRAMANIAN, V J. of the Indian Society of Agricultural Statistics 51(1), 61-72(1998)

iii. Statistical models for crop yield forecasting using biometrical characters by JAIN, RC; CHANDRAHAS and AGRAWA RANJANA IASRI Souvenir entitled `Advance in Agricultural Statistics and Computer Applications` brought out on the occasion of 50t Year of Independence, pp 217-226(1998)

iv. Use of growth indices in Markov chain models for crop yield forecasting by RAMASURAMANIAN, V and JAIN, RC Bio. J., 41(99-109 (1999)

v. Statistical models for crop yield forecasting by JAIN, RC and AGRAWAL, RANJANA Proceedings of National workshop on Dynamic crop simulation modelling for agrometeorological advisory service-NCMRWS Deptt. of Science and Technology New Delhi 295-303 (1999)

Dr. Randhir Singh

i. Remote Sensing applications in agricultural survey by SINGH RANDHIR IASRI Souvenir Advance in Agricultural Statistics ar Computer Applications brought out on the occasion of 50th year of Independence: PP 46-53 (1998).

ii. Effect of Measurement errors due to enumerators and respondents on variance estimation by SINGH, RANDHIR AND SINGH, K.N , J.of Indian Society of Agricultural Statistics 53(1) (1999).

iii. Estimation of measurement errors due to enumerators and respondents simultaneously by SINGH, RANDHIR AND SINGH, K.N., of Indian Society of Agricultural Statistics, 52(3): 30-9-316. (1999).

iv. Estimation from a bivariate population using cluster or two stage sampling, SINGH, RANDHIR, J. of Indian Society of Agricultura Statistics 52(3) 317-326 (1999).

v. Regression estimates from survey data for small sample sizes by SHARMA, Y.K., SINGH, RANDHIR, RAI, ANIL AND VERMA, J. of the Indian Society of Agricultural Statistics, 53 (2), 115-124 (2000).

vi. Use of Remote Sensing Satellite data for crop yield estimation by SINGH. RANDHIR, RAI. ANIL, AND CHHIKARA, I Proceeding of an International Conference of Recent Developments in Statistics and Probability and their applications Dec. 30, 2000 to Jan 2, 2001, PP 440-451..

vii. GIS based spatial sampling techniques in Agricultural Surveys by RAI, ANIL; MISHRA PRACHI and SINGH RANDHIR Proceed of an International Conference of Recent Developments in Statistics and Probability and their applications PP. 381 - 384. (2000).

Dr.V.K.Sharma

i. Analysis of Change-over designs balanced for first and second residuals by V.K.Sharma, IASRI Souvenir Advance in Agricultural Statistics and Computer Applications brought out on the occasion of 50th year of Independence: PP 163-171 (1998).

ii. Crop response to fertilizers in different Agro-climatic regions of the country by SHARMA, S.D., SHARMA, V.K. AND RAO, C.I Fertilizer News 44(4): 17-20 & 23-26 (1999).

iii. Crossover designs for comparison of two treatments in presence of residual - effects by VARGHESE, CINI, VIJAYA, B. ANI SHARMA, V.K. , Indian Anim. Sci. 70 (8) 862-865 (2000).

iv. On totally balanced change over designs by SHARMA, V.K., J. of the Indian Society of Agricultural Statistics 53(2) 141-150 (2000).

Dr.P.R.Sreenath

i. Statistical approach in Agroforestry by HANDA, D.P., KAPOOR, J.K. AND SREENATH, P.R. IASRI Souvenir Advance Agricultural Statistics and Computer Applications brought out on the occasion of 50th year of Independence: PP 118-121 (1998).

ii. Study of Heterogeneity of error variance in agricultural field experiments by KUMAR, RAJENDRA AND SREENATH, P.R., Anima of Agricultural Research Vol. 19(3): 321 - 323 (1998).

iii. Construction of balanced bipartite block designs with nested rows and columns by PARSAD, RAJENDER, SREENATH, P.R. AND AGARWAL, NITI Calcutta Statistical Association Bulletin 49 (195-196), 177 - 185 (1999).

iv. Effect of Coefficient of variation on the heterogeneity of error variance in Agricultural field experiment by KUMAR, RAJENDRA SREENATH, P.R. AND JAIN, S.P., J. of Animals of Agricultural Research Vol. 22(1) (2001).

Dr.V.T.Prabhakaran

i. Simultaneous Selection of high yielding and stable crop genotypes by BAJPAI, P.K., PRABHAKARAN, V.T., KUMAR, RAJES AND SIKARWAR, H.S., Indian Journal of Sugarcane Technology 13(1) 1-5 Jan. 1998.

ii. On some useful interrelationships among common stability parameters by RAO, A.R. AND PRABHAKARAN, V.T., Ind. J. Gene 60(1): 25-36(2000).

iii. A new Procedure for simultaneous selection for high yield and stable crop genotypes by BAJPAI, P.K. AND PRABHAKARAN, V.T Ind, J. Genet. 60(2), 141-152 (2000).

iv. A Statistical Comparison between non-parametric and parametric stability measures by RAIGER, H.C. AND PRABHAKARAI V.T. Ind. J.Genet, 60(4), 417-432 (2000).

v. Gene action and heterosis in life time traits by SHARMA, B.S. PRABHAKARAN, V.T. AND PIRCHNER, F.J. Ani. Breed Gen 117, 319 - 330 (2000).